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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,365	07/30/2001	Eugene T. Michal	ACS 55933	1073
Cameron Kerrigan SQUIRE, SANDERS & DEMPSEY L.L.P			EXAMINER	
			CAMERON, ERMA C	
One Maritime Plaza Suite 300		ART UNIT	PAPER NUMBER	
San Francisco, CA 94111-3492			1792	
			MAIL DATE	DELIVERY MODE
			04/22/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/918,365	MICHAL ET AL.				
Office Action Summary	Examiner	Art Unit				
	/Erma Cameron/	1792				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>24 Ja</u>	nuarv 2008.					
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
<i>,</i> —	<i>,</i> —					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-3 and 7-46</u> is/are pending in the application.						
4a) Of the above claim(s) <u>19-33 and 35-46</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3, 7-18, 34</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Notice of Informal Patent Application						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:						

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#### **DETAILED ACTION**

### Response to Amendment

### Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. The rejection of Claims 1 and 34 under 35 U.S.C. 112, second paragraph, is withdrawn because of the amendment filed 1/24/2008.
- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claim 34 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

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12:10-15 and claims 41-46 as filed describe heparin and SODm synergistically used in the claimed process together. However, the specification and claims do not describe that SODm

can be used in the absence of heparin.

Therefore, claim 34 is not enabled.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. The rejection of Claims 1-3, 7-18 and 34 under 35 U.S.C. 103(a) as being unpatentable over Wang (6,358,557) in view of Fan et al. (5,620,738) is withdrawn.

## Response to Arguments

The examiner does not understand the arguments presented by the applicant regarding the crosslinker of Wang ('557). The examiner had not discussed the crosslinker of Wang as a binding material.

To set the record straight, this rejection is being withdrawn because neither reference teaches oxirane or acetoacetoxy as binding compounds.

8. Claims 1-3 and 7-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 99/38546.

'546 teaches applying to a stent or other device a composition comprising a binding component of isocyanate, aziridine, aldehyde such as cinnamaldehyde or several other species such as oxirane (11:1-6; see claims 1 and 17), a grafting component of acrylate groups (such as urethane acrylate), a photoinitiator and a ketone solvent and polymerizing the composition with UV light. A top composition of heparin is applied to the base layer (see Claims and page 4-19;

Examples 1 and 4). The heparin binds to the binding component, thus immobilizing it (see claim 1). The amine groups on the heparin inherently bind to the base layer to effect end immobilization.

'546 does not teach the time, temperature or pH of claims 14 and 18, but it would have been obvious to one of ordinary skill in the art to have optimized the application of the heparin solution thru no more than routine experimentation.

## Response to Arguments

The applicant has argued that '546 does not teach oxirane or acetoacetoxy compounds as binding agent.

The examiner disagrees.

Claims 1 and 17, as well as 11:1-6 disclose oxirane as a binding agent.

#### Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to /Erma Cameron/ whose telephone number is 571-272-1416. The

examiner can normally be reached on 8:30-6:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Erma Cameron/

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**Primary Examiner** 

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April 21, 2008

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